

Abstract

A metal sheet drilling disk roll used to successively drill holes in along band-shaped metal sheet or metal foil, a metal sheet drilling device using the roll, a metal sheet drilling method, and a drilled metal sheet manufactured using the metal sheet drilling device and metal sheet drilling methods, the metal sheet drilling disk roll (1) comprising a plurality of drilling edge parts formed, in the state of being projected to the outer radial direction and at intervals in circumferential direction, on the outer peripheral surface of the disk roll with a specified thickness, wherein a flat edge part shape on the outer peripheral surface of a drilling edge part (2) is formed in a geometrical shape surrounded by one closed line, and a side edge part shape of the drilling edge part (2) as viewed from the side is formed in a recessed shape so that edge height at its both circumferential end parts is higher than at the other parts and that edge height is lowered gradually toward the center part from the both circumferential end parts.

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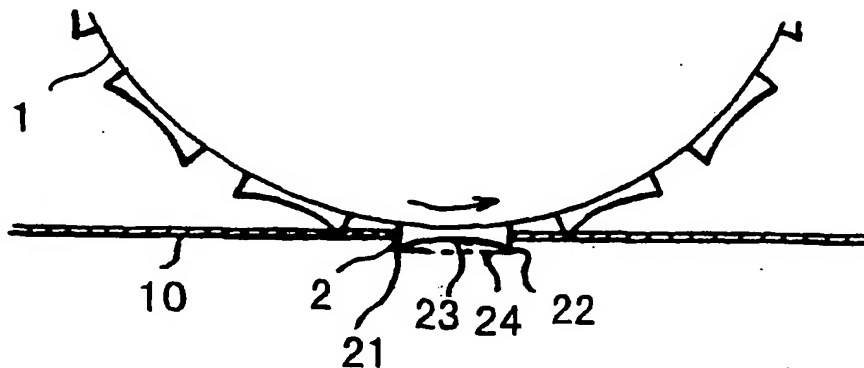
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(54) Title: METAL SHEET DRILLING DISK ROLL, METAL SHEET DRILLING DEVICE USING THE ROLL, METAL SHEET DRILLING METHOD, AND DRILLED-METAL SHEET

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(57) Abstract: A metal sheet drilling disk roll used to successively drill holes in a long band-shaped metal sheet or metal foil, a metal sheet drilling device using the roll, a metal sheet drilling method, and a drilled metal sheet manufactured using the metal sheet drilling device and metal sheet drilling method, the metal sheet drilling disk roll (1) comprising a plurality of drilling edge parts formed, in the state of being projected to the outer radial direction and at intervals in circumferential direction, on the outer peripheral surface of the disk roll with a specified thickness, wherein a flat edge part shape on the outer peripheral surface of a drilling edge part (2) is formed in a geometrical shape surrounded by one closed line, and a side edge part shape of the drilling edge part (2) as viewed from the side is formed in a recessed shape so that edge height at its both circumferential end parts is higher than at the other parts and that edge height is lowered gradually toward the center part from the both circumferential end parts.

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